



6SF7



6SF7

DIODE - SUPER-CONTROL AMPLIFIER PENTODE

SINGLE-ENDED METAL TYPE

Heater	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.3	amp.
Direct Interelectrode Capacitances: ^o		
<i>Pentode Unit</i>		
Grid to Plate	0.004 max.	μf
Input	5.5	μf
Output	6.0	μf
Pentode Grid to Diode	0.002 max.	μf
Pentode Plate to Diode	0.8	μf
Maximum Overall Length	2-5/8"	
Maximum Seated Height	2-1/16"	
Maximum Diameter	1-5/16"	
Bulb	Metal Shell, MT-8	
Base	Small Wafer Octal 8-Pin	
Pin 1 - Shell		Pin 5 - Diode Plate
Pin 2 - Pentode Grid		Pin 6 - Pentode Plate
Pin 3 - Cathode		Pin 7 - Heater
Pin 4 - Screen		Pin 8 - Heater
Mounting Position	Any	

BOTTOM VIEW (7AZ)

PENTODE UNIT - AMPLIFIER

Plate Voltage	300 max. volts
Screen Voltage	100 max. volts
Screen-Supply Voltage	300 max. volts
Grid Voltage	0 min. volts
Plate Dissipation	3.5 max. watts
Screen Dissipation	0.5 max. watt
<i>Typical Operation and Characteristics - Class A₁ Amplifier:</i>	
Plate	100 250 volts
Screen	100 100 volts
Grid	-1 -1 volts
Plate Resistance (Approx.)	0.2 0.7 megohm
Transconductance	1975 2050 μ mhos
Grid Bias (Approx.) †	-35 -35 volts
Plate Current	12 12.4 ma.
Screen Current	3.4 3.3 ma.

DIODE UNIT - One

Consideration of this unit is similar to that given under Type 6B8-G with the exception that there is one diode in Type 6SF7. Diode curves shown under Type 6B7 apply to the 6SF7.

- In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.
- ° With shell connected to cathode.
- † For transconductance of 10 μmhos.

← Indicates a change.

Dec. 1, 1941

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

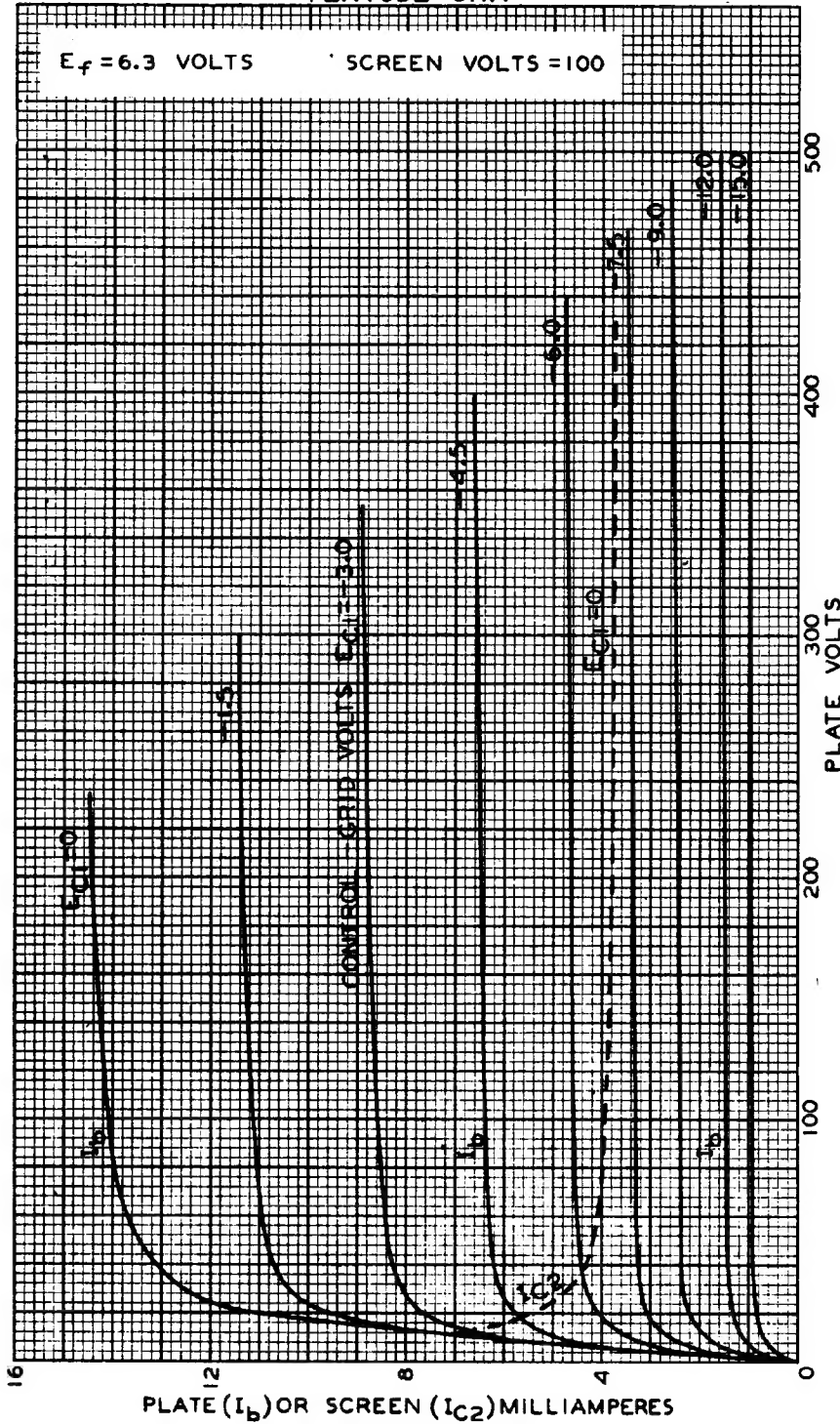
TENTATIVE DATA

6SF7



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AVERAGE PLATE CHARACTERISTICS PENTODE UNIT



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